

## CLAIMS:

1. A display device, comprising:

a display screen (30) for displaying image information, having a predetermined number of luminescent picture elements (35);

an electron gun (40) for generating an electron beam (45) and

5 an electron beam guide (10) for receiving the electron beam (45) at a beam entrance (14) and guiding said electron beam (45) along a beam path to extraction means for extracting said electron beam (45) from said beam guide (10) towards a predetermined picture element (35) of the display screen (30), characterized in that the electron beam guide (10) comprises a two-dimensional slalom guide, while said extraction means are arranged to  
10 extract said electron beam (45) from said two-dimensional slalom guide.

2. A display device as claimed in claim 1, characterized in that the two-dimensional slalom guide defines a guidance plane in which the electron beam (45) can be guided, said guidance plane being substantially parallel to the display screen (30).

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3. A display device as claimed in claim 2, characterized in that the electron beam guide (10) is provided with a number of slalom electrodes (16) extending in a direction substantially perpendicular to the display screen (30), between a back plate (11) and a front plate (12) facing said display screen (30).

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4. A display device as claimed in claim 3, characterized in that the back plate (11), the front plate (12), and the display screen (30) are substantially flat.

5. A display device as claimed in claim 3, characterized in that a slalom electrode  
25 (16) can be switched between an electron beam repelling state and an electron beam attracting state.

6. A display device as claimed in claim 5, characterized in that the slalom electrodes (16) are arranged in rows and columns defining an array of cells (56), each picture element (35) of the display screen (30) corresponding to a cell (56).

7. A display device as claimed in claim 6, characterized in that the front plate (12) is provided with a beam extraction aperture (18) for a cell (56), and the extraction means comprise an extraction electrode (20, 21) for extracting the electron beam (45) through said beam extraction aperture (18).

8. A display device as claimed in claim 6, characterized in that the slalom electrodes (16) are arranged in a delta-nabla configuration.

9. A display device as claimed in claim 1, characterized in that the electron gun is arranged to generate two separate electron beams having a mutual distance smaller than a slalom pitch, each of said two electron beams being guided in a different guiding mode associated with the beam path.

10. A display device as claimed in claim 1, characterized in that a plurality of electron guns are provided for generating a plurality of electron beams such that each of said plurality of electron beams can be received by the electron beam guide at a corresponding beam entrance so as to guide said plurality of electron beams to the extraction means via substantially different individual beam paths.

11. A display device as claimed in claim 1 or 10, characterized in that a beam path length is substantially the same for all picture elements of the display screen.

12. A display device as claimed in claim 1, characterized in that a picture element comprises a plurality of sub-pixels, and the display device is provided with post-selection means for passing the electron beam extracted from the electron beam guide to any one of the plurality of sub-pixels within the predetermined picture element.

13. A display device as claimed in claim 12, characterized in that each of the picture elements comprises three sub-pixels, said three sub-pixels corresponding to the colors red, green, and blue, respectively.